String Displacement Sensor DSS-100

- String potentiometer style;
- Suitable for harsh environments such as crash test;
- Small size, easy install (mounting block supplied);
- Measurement range 100mm;
- Wire max. tension 9N, Acceleration up to 20g;
- Anti-Shock≥100g.

DSS-100 contains an adjustable potentiometer inside and a coaxially designed steel wire coil. When the steel wire stretches or contracts, the resistance of the potentiometer changes accordingly. Its unique internal design keeps the displacement and output voltage constant. A good linear relationship is achieved. The steel wire is made of 304 stainless steel and is designed with high tension. It is very suitable for high-speed measurement applications, such as parts moving during car crash test, and status monitoring of aviation airborne equipment.

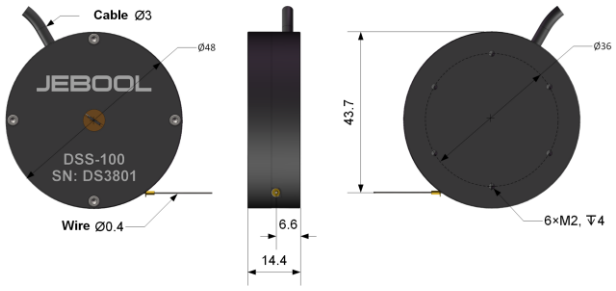
Specification (5V, 25℃)

Name	Unit	Value
Range	mm	100
Tension force	N	9 max.
Wire diameter	mm	0.4
Non-Linearity	%FS	≤±1
Signal smoothness	%	≤0.1
Resistance	Ω	5k±10%
Wire acceleration	g	20 max.
Max. Excitation	VDC	15V
Temp. factor	ppm/℃	±300
Anti-Shock	g	>100
Insolation Res.	MΩ	>100
Opera. Temp.	℃	-45~+105
Mechanical Life	cycle	1million
Material	/	Al. Alloy
weight	grams	80
Dimension	mm	48×48×15.4

Wire length default 8m;

Including mounting fixture.

Dimension:



Mounting Fixtures:

Cable Define:

Red	Excitation+
Black	Excitation-
Green	Signal+
White	Signal-
Shield	Connector Case if have

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